BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work: Improvements to roads and drains at westernside of Hegdenagara 2nd main road from 1st cross to 7th cross and surrounding Areas in Ward No.06

MODIFIED ESTIMATE

Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
1	KSRRB 300 - Excavation for road, drains and similar works KSRRB 300-1. Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. MORTH / Chapter 3 (P.No-143, I.No-19.1)								
	For RCC Drain	Cum							
	Hegdenagar Western side								
	5th cross LHS (1st Main to 2nd Main)		1	190.00	1.20	1.00	228.00		
	6th cross LHS (1st Main to 2nd Main)		1	221.00	1.20	1.00	265.20		
	6th cross RHS (2nd Main to 3rd Main)		1	221.00	1.20	1.00	265.20		
	7th cross LHS (1st Main to 2nd Main)		1	226.00	1.20	1.00	271.20		
	7th cross RHS (1st Main to 2nd		1	210.00	1.20	1.00	252.00		
	7th cross LHS (2nd Main to 3rd		1	206.00	1.20	1.00	247.20		
	7th cross RHS (2nd Main to 3rd		1	206.00	1.20	1.00	247.20		
	For RCC Culvert								
	5th cross (1st Main to 2nd Main)		1	9.30	1.80	0.90	15.07		
	7th cross (2nd Main to 3rd Main)		1	6.80	1.80	0.90	11.02		
	7th cross (2nd Main to 3rd Main)		1	6.00	1.80	0.90	9.72		
			1	5.00	1.80	0.90	8.10		
			1	5.00	1.80	0.90	8.10		
							1828.00	**226.00**	**413128.45**
	Quoted Rate	**226.00**							
2	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. (P.No-222,I No-27.18)								
	For Drain	Cum							
	Hegdenagar Western side								
	5th cross LHS (1st Main to 2nd		1	190.00	1.20	0.15	34.20		
	6th cross LHS (1st Main to 2nd		1	221.00	1.20	0.15	39.78		
	6th cross RHS (2nd Main to 3rd Main)		1	221.00	1.20	0.15	39.78		
	7th cross LHS (1st Main to 2nd Main)		1	226.00	1.20	0.15	40.68		
	7th cross RHS (1st Main to 2nd Main)		1	210.00	1.20	0.15	37.80		
	7th cross LHS (2nd Main to 3rd		1	206.00	1.20	0.15	37.08		
	7th cross RHS (2nd Main to 3rd		1	206.00	1.20	0.15	37.08		
	For RCC Culvert								
	5th cross (1st Main to 2nd Main)		1	9.30	1.80	0.20	3.35		
	7th cross (2nd Main to 3rd Main)		1	6.80	1.80	0.20	2.45		
	7th cross (2nd Main to 3rd Main)		1	6.00	1.80	0.20	2.16		

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Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
				m	m	m			
	C.C Road		1	5.00	1.80	0.20	1.80		
	Cross Road 1		1	5.00	1.80	0.20	1.80		
	Cross Road 2								
	Cross Road 3		1	97.00	4.90	0.15	71.30		
	Paralle Rd to Main Rd		1	94.00	5.00	0.15	70.50		
			1	92.00	4.80	0.15	66.24		
			1	67.00	6.80	0.15	68.34		
	Quoted Rate	5691.91					554.33	5691.91	3155202.16
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. With 20mm and sown size granite metal course aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compcted for walls and bottom including centring shuttering cost of material HOM of machinary curing etc., complete execluding cost of steel as per MORTH specification no. 1500, 1700, 2200 including cost of material labour HOM complete as per specification. (P.No.271, I.No.37.59.2 of PW, P&IWTD S.R 2018-19)								
	For RCC Drain	Cum							
	Hegdenagar Western side								
	Bottom slab								
	5th cross LHS (1st Main to 2nd		1	190.00	1.10	0.15	31.35		
	6th cross LHS (1st Main to 2nd Main)		1	221.00	1.10	0.15	36.47		
	6th cross RHS (2nd Main to 3rd		1	221.00	1.10	0.15	36.47		
	7th cross LHS (1st Main to 2nd		1	226.00	1.10	0.15	37.29		
	7th cross RHS (1st Main to 2nd Main)		1	210.00	1.10	0.15	34.65		
	7th cross LHS (2nd Main to 3rd Main)		1	206.00	1.10	0.15	33.99		
	7th cross RHS (2nd Main to 3rd Main)		1	206.00	1.10	0.15	33.99		
	For RCC Culvert								
	5th cross (1st Main to 2nd Main)		1	9.30	1.50	0.20	2.79		
	7th cross (2nd Main to 3rd Main)		1	6.80	1.50	0.20	2.04		
	7th cross (2nd Main to 3rd Main)		1	6.00	1.50	0.20	1.80		
			1	5.00	1.50	0.20	1.50		
			1	5.00	1.50	0.20	1.50		
	Side walls								
	5th cross LHS (1st Main to 2nd		2	190.00	0.15	0.60	34.20		
	6th cross LHS (1st Main to 2nd		2	221.00	0.15	0.60	39.78		
	6th cross RHS (2nd Main to 3rd Main)		2	221.00	0.15	0.60	39.78		
	7th cross LHS (1st Main to 2nd Main)		2	226.00	0.15	0.60	40.68		
	7th cross RHS (1st Main to 2nd Main)		2	210.00	0.15	0.60	37.80		
	7th cross LHS (2nd Main to 3rd		2	206.00	0.15	0.60	37.08		
	7th cross RHS (2nd Main to 3rd		2	206.00	0.15	0.60	37.08		
	For RCC Culvert								
	5th cross (1st Main to 2nd Main)		2	9.30	0.25	0.60	2.79		
	7th cross (2nd Main to 3rd Main)		2	6.80	0.25	0.60	2.04		
	7th cross (2nd Main to 3rd Main)		2	6.00	0.25	0.60	1.80		
			2	5.00	0.25	0.60	1.50		
			2	5.00	0.25	0.60	1.50		
					Net Qty.		529.86	7422.30	3932779.88
	Quoted Rate	7422.30							

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Sl No	Description of work	Unit	No	Length m	Breadth m	Depth m	Quantity	Rate in Rs	Amount in Rs
4	KSRRB - M2300-14: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.MORTH Specification No. 1600 & 2200 for TMT bars Fe 500. (P.No.239, I.No.29.29.2 of PW, P&IWTD S.R 2018-19)								
	As per Steel Calculation	Tonne					39.85		
	Quoted Rate	77677.05					39.85	77677.05	3095650.67
5	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M25 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)								
	For drain cover slab	Sqm							
	Hegdenagar Western side								
	5th cross LHS (1st Main to 2nd Main)		1	190.00	0.90	--	171.00		
	6th cross LHS (1st Main to 2nd Main)		1	221.00	0.90	--	198.90		
	6th cross RHS (2nd Main to 3rd		1	221.00	0.90	--	198.90		
	7th cross LHS (1st Main to 2nd		1	226.00	0.90	--	203.40		
	7th cross RHS (1st Main to 2nd		1	210.00	0.90	--	189.00		
	7th cross LHS (2nd Main to 3rd		1	206.00	0.90	--	185.40		
	7th cross RHS (2nd Main to 3rd		1	206.00	0.90	--	185.40		
	Quoted Rate	2453.38					1332.00	2453.38	3267902.16
6	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete, 10 cms thick. Page No. 27/ Item No. 5.31.2 PWD SR 2018-19								
		Sqm							
		Not Executed							
7	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.26, I.No.5.17 of PW,P&IWTD SR 2018-19)								
		Sqm							
		Not Executed							
8	Providing and Fixing pre cast covering Slab 250mm thick made out of M25 and jelly 20mm Down size with steel reinforcement including form work,curing,including cost of alll materials, labour,hire charges of machinery, loading, unloading, lead and lift,transportation etc ,complete.As per Engineer incharge. (Data Rate)								
	For Culvert Slabs	Sqm							
	5th cross (1st Main to 2nd Main)		1	9.30	1.50	--	13.95		
	7th cross (2nd Main to 3rd Main)		1	6.80	1.50	--	10.20		
	7th cross (2nd Main to 3rd Main)		1	6.00	1.50	--	9.00		
			1	5.00	1.50	--	7.50		
			1	5.00	1.50	--	7.50		
	Quoted Rate	5687.82					48.15	5687.82	273868.53

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Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
9	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of Mix 1:2:4 with OPC @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.13, I.No.4.6 of PW, P&IWTD SR 2018-19)								
	For Kerb Stone	Nos							
	Hegdenagar Western side								
	5th cross LHS (1st Main to 2nd Main)		1	190.00	0.25	0.12	5.70		
	6th cross LHS (1st Main to 2nd		1	221.00	0.25	0.12	6.63		
	6th cross RHS (2nd Main to 3rd		1	221.00	0.25	0.10	5.53		
	7th cross LHS (1st Main to 2nd		1	226.00	0.25	0.10	5.65		
	7th cross RHS (1st Main to 2nd Main)		1	210.00	0.25	0.10	5.25		
	7th cross LHS (2nd Main to 3rd Main)		1	206.00	0.25	0.15	7.73		
	7th cross RHS (2nd Main to 3rd Main)		1	206.00	0.25	0.15	7.73		
							44.21	**6033.54**	**266712.64**
	Quoted Rate	**6033.54**							
10	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge. (P.No.27, I.No.5.30 of PW, P&IWTD SR 2018-19)								
	For Drain	Nos							
	Hegdenagar Western side								
	5th cross LHS (1st Main to 2nd Main)		1	190.00			190.00		
	6th cross LHS (1st Main to 2nd Main)		1	221.00			221.00		
	6th cross RHS (2nd Main to 3rd Main)		1	221.00			221.00		
	7th cross LHS (1st Main to 2nd		1	226.00			226.00		
	7th cross RHS (1st Main to 2nd		1	210.00			210.00		
	7th cross LHS (2nd Main to 3rd Main)		1	206.00			206.00		
	7th cross RHS (2nd Main to 3rd Main)		1	206.00			206.00		
							1480.00		
							3289.00	**454.02**	**1493271.78**
	Quoted Rate	**454.02**							
11	Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 Specification No. KSRRB M800-6. (P.No.180, I.No.24.1 of PW, P&IWTD SR 2018-19)								
	For Drain	Sqm							
	Hegdenagar Western side								
	5th cross LHS (1st Main to 2nd Main)		1	190.00	0.40		76.00		
	6th cross LHS (1st Main to 2nd Main)		1	221.00	0.40		88.40		
	6th cross RHS (2nd Main to 3rd Main)		1	221.00	0.40		88.40		

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Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	7th cross LHS (1st Main to 2nd Main)		1	226.00	0.40		90.40		
	7th cross RHS (1st Main to 2nd Main)		1	210.00	0.40		84.00		
	7th cross LHS (2nd Main to 3rd Main)		1	206.00	0.40		82.40		
	7th cross RHS (2nd Main to 3rd Main)		1	206.00	0.40		82.40		
	Quoted Rate	89.02					592.00	89.02	52699.84
E1	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.9 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to the embankment location to a lead of 1km and complete as per specifications.(I No-19.14,P No-143).								
	C.C Road	Cum							
	Cross Road 1		1	97.00	4.90	0.40	190.12		
	Cross Road 2		1	94.00	5.00	0.40	188.00		
	Cross Road 3		1	92.00	4.80	0.40	176.64		
	Paralle Rd to Main Rd		1	67.00	6.80	0.40	182.24		
							737.00	45.62	33,625.11
	Basic rate	41.00							
	Area Weightage 6%	2.46							
	Total	**43.46**							
	Tender Premium (+) 4.98%	**2.16**							
	Total Rate	**45.62**							
E2	KSRRB 300-58. **Compaction of original ground** by mechanical means including filling in depression occuring during rolling including cost of all labour, HOM complete as per specifications (I No-19.64, P No-147)								
	C.C Road	Sqm							
	Cross Road 1		1	97.00	4.90		475.30		
	Cross Road 2		1	94.00	5.00		470.00		
	Cross Road 3		1	92.00	4.80		441.60		
	Paralle Rd to Main Rd		1	67.00	6.80		455.60		
							1842.50	6.68	12,301.87
	Basic rate	6.00							
	Area Weightage 6%	0.36							
	Total	**6.36**							
	Tender Premium (+) 4.98%	**0.32**							
	Total Rate	**6.68**							
E3	Construction of **granular sub-base Grading-V** as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications Clause 401 of MORTH V Revision.(I No-20.5,P No-153)								
	C.C Road	Cum							
	Cross Road 1		1	97.00	4.90	0.20	95.06		
	Cross Road 2		1	94.00	5.00	0.20	94.00		
	Cross Road 3		1	92.00	4.80	0.20	88.32		
	Paralle Rd to Main Rd		1	67.00	6.80	0.20	91.12		
							368.50	2094.27	771737.40
	Basic rate	1882.00							
	Area Weightage 6%	112.92							
	Total	**1994.92**							
	Tender Premium (+) 4.98%	**99.35**							

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Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate	Amount
				m	m	m		in Rs	in Rs
	Total Rate	2094.27							
E4	**Constructing un-reinforced, plain cement concrete** for pavements using Grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregates at 0.46 cum,Coarse and fine aggregate conforming to IS:383-2016, with Superplastizer at 3 its conforming to IS 9103-2008. mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints,including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron, sealant primer, joint sealant, admixtures as approved, curing compound, finishing to -do- with OPC at 360 kg/cum and coarse aggregate 0.69cum, fine aggregate 0.46cum. (P.No-176,I No-22.6.1)								
	C.C Road	Cum							
	Cross Road 1		1	97.00	4.90	0.15	71.30		
	Cross Road 2		1	94.00	5.00	0.15	70.50		
	Cross Road 3		1	92.00	4.80	0.15	66.24		
	Paralle Rd to Main Rd		1	67.00	6.80	0.15	68.34		
							276.38	5470.47	1511899.99
	Basic rate	4916.00							
	Area Weightage 6%	294.96							
	Total	5210.96							
	Tender Premium (+) 4.98%	259.51							
	Total Rate	5470.47							
								Total Construction Cost	18280780.48

Assistant Engineer 23/10/2021
Project Division Yelahanka
BBMP

Assistant Executive Engineer 25/10/2021
Project Division Yelahanka
BBMP

Executive Engineer
Project Division Yelahanka
BBMP

Technical Sanction
Accorded For Rs.18280780/-
Head of A/C.P3178.....
CER NO :...64..... Dt:25.10.20

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